

# EXHIBIT C

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## Notice

### South Infill Exploration Project

October 1, 2018

Paradigm Minerals USA Corp. (PMU) intends to conduct exploration activities at the South Infill Exploration Project (Project) located in Section 34, Township 1 South, Range 37 East (T1S, R37E), and Section 3, T2S, R37E, Mount Diablo Base and Meridian in Esmeralda County, Nevada (Project Area). PMU met with the Bureau of Land Management Tonopah Field Office (BLM) in late September 2018. The BLM suggested PMU (1) close the South Lithium Basin Notice NVN-095045 and (2) submit a new Notice to include portions of surface disturbance previously approved under NVN-095045, which PMU wants to keep active, and new locations of planned surface disturbance. PMU has followed the suggested approach outlined by the BLM regarding the closure of Notice NVN-095045. Under this Notice, PMU plans to incorporate and keep active 2.01 acres of as-built surface disturbance approved under Notice NVN-095045 in addition to 2.23 acres of planned new locations of surface disturbance for a total of **4.24 acres**. The locations of authorized as-built surface disturbance and planned new locations of surface disturbance are shown on Figure 1, Appendix 1. Figure 2 shows the total as-built surface disturbance conducted at the South Lithium Basin Project which are being requested for release to close NVN-095945. PMU files this Notice pursuant to the provisions of 43 Code of Federal Regulations (CFR) 3809.21 and 3809.301.

1. Name of Operator: Paradigm Minerals USA Corp.

Name of Corporate Contact: Matt Weaver, Senior Vice President

Mailing Address: Paradigm Minerals USA Corp.  
241 Ridge Street, Suite 210  
Reno, Nevada 89501

Tax Identification Number: 98-0594815

Owners of Mining Claims: Paradigm Minerals Arizona Corp.  
241 Ridge Street, Suite 210  
Reno, Nevada 89501

2. Bureau of Land Management Serial Numbers and Names of Claims on Which Disturbance will Occur:

Claim Name	NMC Number
SLB 5	NMC1117364
SLB 6	NMC1117365
SLB 7	NMC1117366
SLB 8	NMC1117367
SLB 9	NMC1117368
SLB 10	NMC1117369
SLB 11	NMC1117370

Claim Name	NMC Number
SLB 17	NMC1117376
SLB 18	NMC1117377
SLB 19	NMC1117378
SLB 20	NMC1117379
SLB 23	NMC1117382
SLB 24	NMC1117383
SLB 26	NMC1117385

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Claim Name	NMC Number
SLB 12	NMC1117371
SLB 13	NMC1117372
SLB 14	NMC1117373
SLB 15	NMC1117374
SLB 16	NMC1117375

Claim Name	NMC Number
SLB 28	NMC1117387
SLB 30	NMC1117389
SLB 32	NMC1117391
SLB 33	NMC1117392
SLB 38	NMC1117397

3. Location of Proposed Activities: The Project is located approximately 15 air miles from Dyer, Nevada (Figure 1), and can be reached from Fish Lake Valley by turning east from State Highway 264 on to the Mineral Ridge county road. The Project Area is located on the Baldy Peak 7 ½ minute United States Geological Survey (USGS) Quadrangle map. The location is shown on Figure 1, Appendix 1.
4. Existing Disturbance in the Project Area: There are several existing tracks and trails located within the Project Area, as shown on Figure 1. PMU conducted approximately 2.01 acres of surface disturbance under the approved exploration activities under Notice NVN-095045, which are now included in this Notice.
5. Project Description: PMU plans to conduct exploration drilling at the Project from up to 24 constructed drill sites accessed via existing travel routes and segments of constructed road. Approximately 2,844 linear feet of exploration roads will be constructed with the approximate running width of 12 feet. Drill sites will be constructed with an average working area of 50 feet long by 50 feet wide. Sumps approximately 20 feet long by ten feet wide by 6.75 feet deep will be excavated within the drill site disturbance to collect drill cuttings and manage fluids. PMU will construct one water bladder laydown area with the approximate dimensions of 61 feet long by 50 feet wide. PMU has developed two ground water monitoring wells within the surface disturbance of as-built drill sites constructed under Notice NVN-095045. The ground water monitoring wells were completed with four-inch diameter steel casing up to 250 feet deep. PMU's as-built and planned exploration activities are shown on Figure 1.

Exploration drilling will be conducted with a reverse-circulation (RC) rig to drill holes to a maximum depth of 1,000 feet. Water for the Project will be obtained by a private contractor. The drill crew and geologists will use 4-wheel drive vehicles to access the site. Support vehicles and equipment for the exploration drilling activities include pick-up trucks, pipe trucks, and water trucks.

The depth to the water table in the areas of proposed drilling is unknown; however, for the bond calculation assumptions, 100 feet below ground surface is assumed. If ground water is encountered, the hole will be plugged pursuant to Nevada Administrative Code (NAC) 534.420.

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6. Approximate Surface Disturbance: The following specifics apply to the Project:

**As-Built Surface Disturbance Conducted under NVN-095045 to be included in the Notice**

- Approximately 4,917 linear feet of constructed roads with disturbance width of 12 feet = **1.36 acres** and
- Eight drill sites (including sumps) approximate dimensions of 61 feet long by 58 feet wide = **0.65 acre**.

**Total As-Built Surface Disturbance Conducted under NVN-095045 to be included in the Notice = 2.01 acres**

**Planned Surface Disturbance**

- Approximately 2,844 linear feet of constructed roads with a running width of 12 feet = **0.78 acre**;
- Twenty-four drill sites (including sumps) constructed with the approximate dimensions of 50 feet long by 50 feet wide = **1.38 acres**; and
- One water bladder laydown area constructed with the approximate dimensions of 61 feet long by 50 feet wide = **0.07 acre**.

**Total Planned Surface Disturbance = 2.23 acres**

**Total As-Built (from Notice NVN-095045) and Planned Surface Disturbance = 4.24 acres**

7. Schedule of Activities: PMU anticipates that Project activities will commence as early as October 2018. Reclamation activities will likely be completed in the Summer of 2020; however, revegetation activities are limited by the time of year during which they can be effectively implemented. Site conditions or yearly climatic variations may require that this schedule be modified to achieve revegetation success. Once a site or road is no longer needed for exploration, the site will be reclaimed.
8. Measures Taken to Prevent Unnecessary or Undue Degradation: Operations will be conducted consistent with 43 CFR 3809.415 and 3809.420.
- Existing access routes and constructed roads will be used.
  - Only nontoxic fluids will be used in the drilling process.
  - PMU will not knowingly disturb, alter, injure, or destroy any scientifically important paleontological deposits; or any historical or archaeological site, structure, building, or object. If PMU discovers any cultural or paleontological resource that might be altered or destroyed by operations, the discovery will be left intact and reported to the authorized BLM officer.

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- Any survey monuments, witness corners, or reference monuments will be protected to the extent economically and technically feasible.
  - Public safety will be maintained throughout the life of the Project. All equipment will be maintained in a safe and orderly manner.
  - All solid wastes will be removed from the Project Area and disposed of in a state, federal, or local designated site.
  - Hazardous substances utilized at the Project will include diesel fuel, gasoline, and lubricating grease. Approximately 100 gallons of diesel fuel and gasoline will be stored in fuel delivery systems on the drill rig and support vehicles. Approximately 50 pounds of lubricating grease will be stored on the drill rig or transported by drill trucks. In the event that hazardous or regulated materials were spilled, measures will be taken to control the spill and the BLM and the Nevada Division of Environmental Protection (NDEP) will be notified as required. Any hazardous substance spills will be cleaned immediately, and any resulting waste will be transferred off site in accordance with all applicable local, state, and federal regulations. Contract drillers will maintain spill kits on site for use in case of a spill.
  - PMU will comply with all applicable state and federal fire laws and regulations and all reasonable measures will be taken to prevent and suppress fires in the Project Area.
  - Best Management Practices (BMPs) for sediment control will be utilized during construction, operation, and reclamation to minimize sedimentation from disturbed areas. Sumps could include, but not be limited to, fabric or certified weed-free straw bale filter fences, siltation or filter berms, and downgradient drainage channels in order to prevent unnecessary or undue degradation to the environment.
  - All drill holes will be plugged in accordance with NAC 534.4369 and 534.4371. If ground water is encountered, the hole will be plugged pursuant to NAC 534.420.
  - All drill holes will be abandoned in accordance with the State of Nevada Regulations for Water Well and Related Drilling (NAC/NRS Chapter 534).
  - All reasonable steps will be taken to minimize the introduction of noxious weeds and to limit the spread of any existing infestations.
9. Reclamation: Reclamation will be completed to the standards described in 43 CFR 3809.420. Exploration roads and drill sites will be regraded to the natural contour and slope of the surrounding topography and to the pre-Project condition. All spoil piles from sediment trap construction will be stockpiled at drill site locations and recontoured at such time as the drill site will no longer be used. All earthwork will be completed with a Caterpillar Backhoe, or equivalent equipment. Reclamation of the piezometer/ground water monitoring wells will be cutting the casing to ground surface, plugging the drill hole with cement, and reclaiming the typical-sized drill pad and sump. The regraded and/or ripped areas will then be seeded with a BLM-approved seed mix, at the

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appropriate time of year for optimum seed sprouting and plant growth. The seeding will be completed with a manual broadcaster and raked. The reclaimed surfaces will be left in a textured or rough condition (small humps, pits, etc.). The broadcast seed application rate will vary based on the shrub, forb, and grass species selected. Native seed will be used when available. Only certified weed-free seed will be used for reclamation seeding. Post-reclamation maintenance will consist of remedial dirt work and reseeding, if required.

Site monitoring for stability and revegetation success will be conducted once a year for at least three years, during the spring or fall, or until attainment of the revegetation standards established in the *Nevada Guidelines for Successful Revegetation for the Nevada Division of Environmental Protection, the Bureau of Land Management, and the USDA Forest Service* (Instruction Memorandum #NV 99-013).

10. Reclamation Cost Estimate: The reclamation cost estimate (Appendix 2), as required by 43 CFR 3809.552, is attached to this Notice. The Standardized Reclamation Cost Estimator, Version 1.4.1, Build 017b including 2018 cost data, with the 2018 Mobilization/Demobilization worksheet was used to estimate reclamation costs for the Project.

The following assumptions have been made in calculating the reclamation cost estimate:

- Approximately 2.01 acres of as-built surface disturbance authorized under Notice NVN-095045 will be recontoured and seeded.
- Approximately 2,844 linear feet of road with a running width of 12 feet will be recontoured and seeded.
- Twenty-four constructed drill sites approximately at 50 feet long by 50 feet wide will be recontoured and seeded.
- One water bladder laydown area with the approximate dimensions of 61 feet long by 50 feet wide will be recontoured and seeded.
- Twenty-four constructed sumps, approximately 20 feet long by ten feet wide and 6.75 feet deep will be backfilled, recontoured, and seeded.
- Abandonment of two ground water monitoring wells with a casing diameter of four inches and average depth of 250 feet.
- A Caterpillar Backhoe, excavator, dozer, or equivalent equipment, will be used for all reclamation earthwork including recontouring and scarifying sumps. The disturbed area will be seeded by a manual broadcast method and raked.
- The total estimated reclamation cost for the total planned disturbance contained in this Notice is **\$34,838.00**.

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11. Signature Page

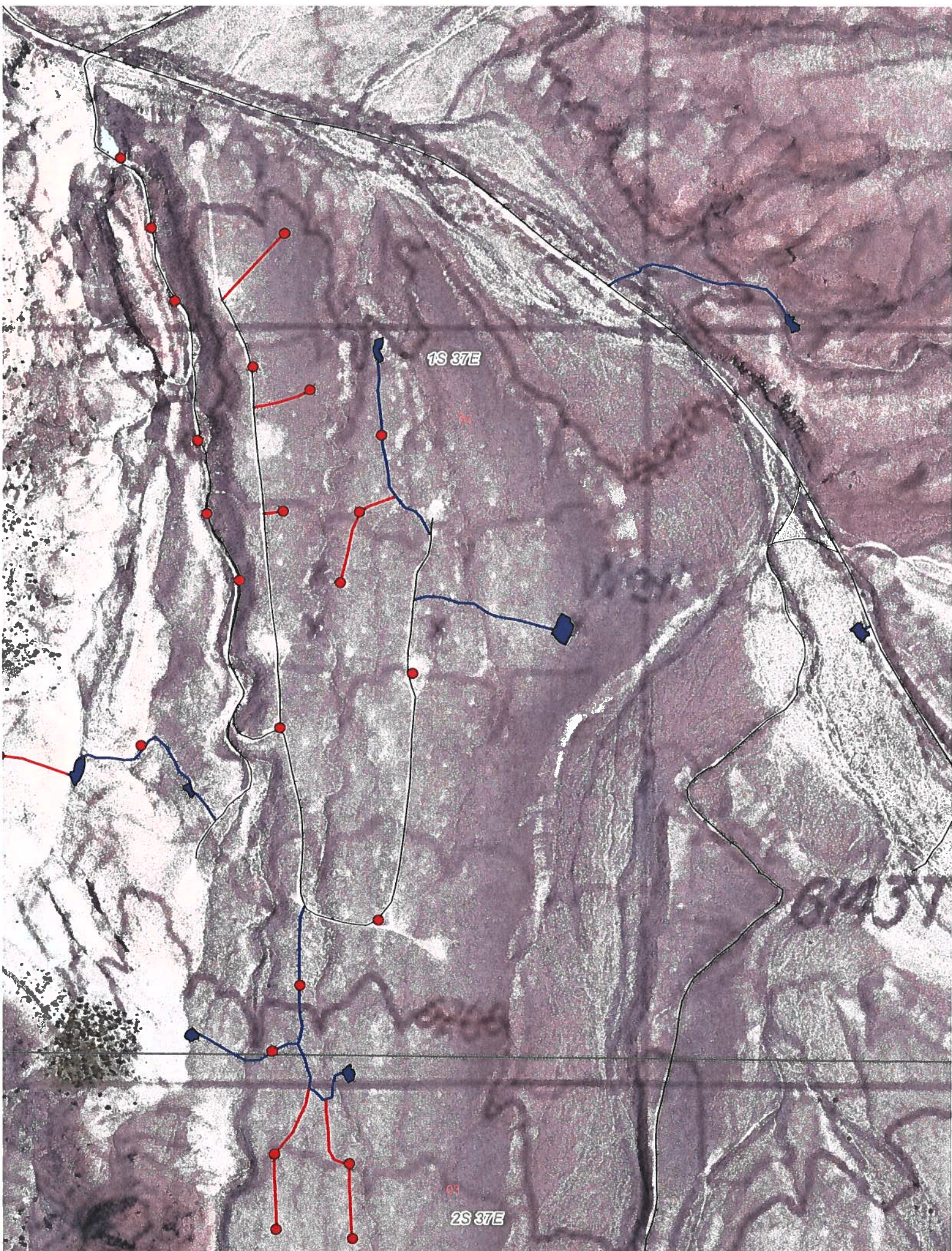
**Paradigm Minerals USA Corp.**

By   
Matt Weaver, Senior Vice President

October 1, 2018  
Date

# Appendix 1

## Figures





## Appendix 2

# Reclamation Cost Estimate

**Closure Cost Estimate  
Property Information**

Enter Data Below in Green and Blue Spaces

**STANDARDIZED RECLAMATION COST ESTIMATOR**

Version 1.4.1

Build 017b (revised to work with Excel 2016 - 24 Oct 2016)

**Approved for use in Nevada, August 1, 2012**

**COST DATA FILE INFORMATION**

File Name:	<u>3843l.South Infill Notice.RCE.V2.xlsm</u>		
Cost Data File:	<u>SRCE_Cost_Data_File_1_12_Std_2018.xlsm</u>		
Cost Data Date:	<u>August 1, 2018</u>		
Cost Data Basis:	<u>User Data</u>	Data Cost Units:	<u>Imperial</u>
Author/Source:	<u>Nevada Division of Environmental Protection (NDEP) &amp; NV BLM</u>		

**PROJECT INFORMATION**

Property/Mine Name:	<u>South Infill Notice</u>	Property Code:	<u></u>
Project Name:	<u>South Infill Notice</u>		
Date of Submittal:	<u>October 2018</u>	Average Altitude:	<u>6000</u> ft.
Select One:	<input checked="" type="radio"/> Notice or Sm Exploration Plan	<input type="radio"/> Lg Exploration Plan	<input type="radio"/> Mine Operation
Select One:	<input type="radio"/> Private Land	<input checked="" type="radio"/> Public or Public/Private	
Cost Estimate Type:	<u>Surety</u>		
Cost Basis Category:	<u>S. Nevada Notice Level</u> ▾		
	Clark, Esmeralda, Lincoln and Nye Counties		
Cost Basis Description:			

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**Closure Cost Estimate  
Cost Summary**

Project Name: South Infill Notice

Project Date: October 2018

Model Version: Version 1.4.1

File Name: 38431.South Infill Notice.RCE.V2.xlsm

<b>A. Earthwork/Recontouring</b>	<b>Labor <sup>(1)</sup></b>	<b>Equipment <sup>(2)</sup></b>	<b>Materials</b>	<b>Total</b>
Exploration	\$1,698	\$3,329	\$739	\$5,766
Exploration Roads & Drill Pads	\$2,861	\$4,432	\$0	\$7,293
Roads	\$0	\$0	\$0	\$0
Well Abandonment	\$766	\$264	\$6	\$1,036
Pits	\$0	\$0	N/A	\$0
Quarries & Borrow Areas	\$0	\$0	\$0	\$0
Underground Openings	\$0	\$0	\$0	\$0
Process Ponds	\$0	\$0	\$0	\$0
Heaps	\$0	\$0	\$0	\$0
Waste Rock Dumps	\$0	\$0	\$0	\$0
Landfills	\$0	\$0	\$0	\$0
Tailings	\$0	\$0	\$0	\$0
Foundation & Buildings Areas	\$0	\$0	\$0	\$0
Yards, Etc.	\$0	\$0	\$0	\$0
Drainage & Sediment Control	\$0	\$0	\$0	\$0
Generic Material Hauling	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
<b>Subtotal</b>	<b>\$5,325</b>	<b>\$8,025</b>	<b>\$745</b>	<b>\$14,095</b>
Mob/Demob if included in Other User sheet	\$0	\$0	\$0	\$0
Mob/Demob	\$3,446	\$3,446		\$6,892
<b>Subtotal "A"</b>	<b>\$8,771</b>	<b>\$11,471</b>	<b>\$745</b>	<b>\$20,987</b>
<b>B. Revegetation/Stabilization</b>	<b>Labor <sup>(1)</sup></b>	<b>Equipment <sup>(2)</sup></b>	<b>Materials</b>	<b>Total</b>
Exploration	\$0	\$0	\$0	\$0
Exploration Roads & Drill Pads	\$576	\$219	\$1,757	\$2,552
Roads	\$0	\$0	\$0	\$0
Well Abandonment				N/A
Pits	\$0	\$0	\$0	\$0
Quarries & Borrow Areas	\$0	\$0	\$0	\$0
Underground Openings				N/A
Process Ponds	\$0	\$0	\$0	\$0
Heaps	\$0	\$0	\$0	\$0
Waste Rock Dumps	\$0	\$0	\$0	\$0
Landfills	\$0	\$0	\$0	\$0
Tailings	\$0	\$0	\$0	\$0
Foundation & Buildings Areas	\$0	\$0	\$0	\$0
Yards, Etc.	\$0	\$0	\$0	\$0
Drainage & Sediment Control	\$0	\$0	\$0	\$0
Generic Material Hauling	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
<b>Subtotal "B"</b>	<b>\$576</b>	<b>\$219</b>	<b>\$1,757</b>	<b>\$2,552</b>
<b>C. Detoxification/Water Treatment/Disposal of Wastes**</b>	<b>Labor <sup>(1)</sup></b>	<b>Equipment <sup>(2)</sup></b>	<b>Materials</b>	<b>Total</b>
Process Ponds/Sludge				\$0
Heaps				\$0
Dumps (Waste & Landfill)				\$0
Tailings				\$0
Surplus Water Disposal				\$0
Monitoring				\$0
Miscellaneous				\$0
Solid Waste - On Site	\$0	\$0	N/A	\$0
Solid Waste - Off Site				\$0
Hazardous Materials				\$0
Hydrocarbon Contaminated Soils	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
<b>Subtotal "C"</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>D. Structure, Equipment and Facility Removal, and Misc.</b>	<b>Labor <sup>(1)</sup></b>	<b>Equipment <sup>(2)</sup></b>	<b>Materials</b>	<b>Total</b>
Foundation & Buildings Areas	\$0	\$0	\$0	\$0
Other Demolition	\$0	\$0	\$0	\$0
Equipment Removal	\$0	\$0	\$0	\$0
Fence Removal	\$0	\$0	\$0	\$0
Fence Installation	\$0	\$0	\$0	\$0
Culvert Removal	\$0	\$0	N/A	\$0
Pipe Removal	\$0	\$0	N/A	\$0
Powerline Removal	\$0			\$0
Transformer Removal	\$0			\$0
Rip-rap, rock lining, gabions	\$0	\$0	\$0	\$0
Other Misc. Costs	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
<b>Subtotal "D"</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>E. Monitoring</b>	<b>Labor <sup>(1)</sup></b>	<b>Equipment <sup>(2)</sup></b>	<b>Materials</b>	<b>Total</b>
Reclamation Monitoring and Maintenance	\$4,148	\$503	\$176	\$4,827
Ground and Surface Water Monitoring	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
<b>Subtotal "E"</b>	<b>\$4,148</b>	<b>\$503</b>	<b>\$176</b>	<b>\$4,827</b>
<b>F. Construction Management &amp; Support</b>	<b>Labor</b>	<b>Equipment <sup>(2)</sup></b>	<b>Materials</b>	<b>Total</b>
Construction Management	\$0	\$0	N/A	\$0
Construction Support	\$0	\$0	\$0	\$0
Road Maintenance	\$0	\$0	\$0	\$0
Other User Costs (from Other User sheet)	\$0	\$0	\$0	\$0
Other**				\$0
<b>Subtotal "F"</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Subtotal Operational &amp; Maintenance Costs</b>	<b>Labor <sup>(1)</sup></b>	<b>Equipment <sup>(2)</sup></b>	<b>Materials <sup>(3)</sup></b>	<b>Total</b>
<b>Subtotal A through F</b>	<b>\$13,495</b>	<b>\$12,193</b>	<b>\$2,678</b>	<b>\$28,366</b>

\*\* Other Operator supplied costs - additional documentation required.

**Closure Cost Estimate  
Cost Summary**

**Project Name: South Infill Notice  
Project Date: October 2018  
Model Version: Version 1.4.1  
File Name: 3843I.South Infill Notice.RCE.V2.xlsm**

Indirect Costs		Include?	Total	
1. Engineering, Design and Construction (ED&C) Plan (7)			N/A	
2. Contingency (8)			N/A	
3. Insurance (9)	\$202		\$202	
4. Performance Bond (10)			N/A	
5. Contractor Profit (11)			\$2,837	
6. Contract Administration (12)			\$2,837	
7. Government Indirect Cost (13)			\$596	
Subtotal Add-On Costs			\$6,472	
Total Indirect Costs as % of Direct Cost			23%	
GRAND TOTAL			\$34,838	
Administrative Cost Rates (%)				
	Cost Ranges for Indirect Cost Percentages			
	<=	<=	<=	>
1. Engineering, Design and Construction (ED&C) Plan (7)	\$1,000,000	\$25,000,000		\$25,000,000
Variable Rate	8%	6%		4%
2. Contingency (8)	\$500,000	\$5,000,000	\$50,000,000	\$50,000,000
Variable Rate	10%	8%	6%	4%
3. Insurance (9)	1.5% of labor costs			
4. Bond (10)	3.0% of the O&M costs if O&M costs are >\$100,000			
5. Contractor Profit (11)	10% of the O&M costs			
	<=	<=	<=	>
6. Contract Administration (12)	\$1,000,000	\$25,000,000		\$25,000,000
Variable Rate	10%	8%		6%
Government Indirect Cost (13)	21% of contract administration			

**RECLAMATION COST ESTIMATION SUMMARY SHEET FOOTNOTES**

1. Federal construction contracts require Davis-Bacon wage rates for contracts over \$2,000. Wage rate estimates may include base pay, payroll loading.
2. The reclamation cost estimate must include the estimated plugging cost of at least one drill hole for each active drill rig in the project area. Where the
3. Miscellaneous items should be itemized on accompanying worksheets.
4. Fluid management should be calculated only when mineral processing activities are involved. Fluid management represents the costs of maintaining
5. Handling of hazardous materials includes the cost of decontaminating, neutralizing, disposing, treating and/or isolating all hazardous materials used.
6. Any mitigation measures required in the Plan of Operations must be included in the reclamation cost estimate. Mitigation may include measures to avoid.
7. Engineering, design and construction (ED&C) plans are often necessary to provide details on the reclamation needed to contract for the required work. To
8. A contingency cost is included in the reclamation cost estimation to cover unforeseen cost elements. Calculate the contingency cost as a percentage of the
9. Insurance premiums are calculated at 1.5% of the total labor costs. Enter the premium amount if liability insurance is not included in the itemized unit
10. Federal construction contracts exceeding \$100,000 require both a performance and a payment bond (Miller Act, 40 USC 270et seq.). Each bond premium
11. For Federal construction contracts, use 10% of estimated O&M cost for the contractor's profit.
12. To estimate the contract administration cost, use 6 to 10% of the operational and maintenance (O&M) cost. Calculate the contract administration cost as a
13. Government indirect cost rate is 21% of the contract administration costs.

**Closure Cost Estimate**  
**Exploration**

Project Name: South Infill Notice- Notice or Exploration  
Date of Submittal: October 2018  
File Name: 3843.South Infill Notice.RCE.V2.xlsm  
Model Version: Version 1.4.1  
Cost Data: User Data  
Cost Data File: SRCE\_Cost\_Data\_File\_1\_12\_2018.xlsm  
Cost Estimate Type: Surety  
Cost Basis: S. Nevada Notice Level

Exploration - Cost Summary				
	Labor	Equipment	Materials	Totals
Hole Abandonment Costs	\$1,698	\$3,329	\$739	\$5,766
Trench Backfilling Costs		\$0	\$0	\$0
Subtotal Earthworks	\$1,698	\$3,329	\$739	\$5,766
Trench Revegetation Costs	\$0	\$0	\$0	\$0
TOTALS	\$1,698	\$3,329	\$739	\$5,766

Exploration Drillhole Abandonment - User Input										
Facility Description			Hole Plugging							
	Description (required)	ID Code	Hole Type (select)	Diameter in	Total Number of Holes	Max Holes Opened at One Time	Casing to Remove ft	Average Depth of Hole <sup>(1)</sup> ft bgs	Depth to Water ft bgs	Hole Plugging Method (select)
1	Open Drill Hole		Reverse Circ	6.0	48.0	2.0	0.0	1,000.0	100.0	Grout + Backfill

**Notes:**

- 1 If core holes are pre-drilled, use length of hole below pre-drilled length
- 2 If Top Plug is selected, assumes maximum 12hr laborer time to place plug and backfill with cuttings/soil (including move-to/set up time).

Up to two holes will be open at any given time

Assuming an average of two holes drilled per pad (2\*24=48)

[illegible]

Notes:

1. Include one-way hours necessary to walk equipment in from drop-off point to work area
2. Material Types are used for density correction based on material densities in Caterpillar Performance Handbook material density table

Exploration Drilling Abandonment														
	Description (required)	Volume of depth (ft)	Hole Plugging Material (1)	Total Grout Volume (2)	Total Cuttings Volume (3)	Total Top Seal Volume (4)	Total Drilling Abandonment Hours (5)	Casing Removal Labor Cost (6)	Casing Removal Equipment Cost (7)	Plugging Labor Cost (8)	Plugging Equipment Cost (9)	Plugging Material Cost (10)	Top Seal Material Cost (11)	Total Cost (12)
1	Open Drill Hole	0.200	Grout + Cuttings	8.80	8.80	0.22	0.19	\$0	\$0	\$1,638	\$3,229	\$725	\$14	\$5,765
				8.80	8.80	0.22	0.19	\$0	\$0	\$0	\$3,229	\$725	\$14	\$5,765
				8.80	8.80	0.22	0.19	\$0	\$0	\$0	\$3,229	\$725	\$14	\$5,765

Notes:

1. Assumes grout backfill from bottom of hole to 50' (15.24m) above static water level; up to 10' (3m) from top of hole
2. Assumes 25% loss to formation for grout backfill
3. If "Top Plug" hole plug method is used, assumes physical plug installed without backfill, grout or cement. Not available option for Nevada projects
4. Assumes 20' (6m) of hole is plugged with cement. "Grout" or "Cement Plug" hole plug method are chosen.
5. Assumes 20' (6m) of hole is plugged with cement. "Grout" or "Cement Plug" hole plug method are chosen.
6. Assumes minimum 1 in per hole for abandonment (excluding move-to and casing removal)
7. Assumes fixed hours per hole for setup & tear-down and moving between holes (see Productivity Sheet) per drill hole includes rig time if grouting required, labor crew only (cuttings backfill only)

**Closure Cost Estimate  
Expl. Roads & Pads**

Project Name: South Infill Notice- Notice or Exploration  
Date of Submittal: October 2018  
File Name: 38431.South Infill Notice.RCE.V2.xlsm  
Model Version: Version 1.4.1  
Cost Data: User Data  
Cost Data File: SRCE\_Cost\_Data\_File\_1\_12\_Std\_2018.xlsm  
Cost Estimate Type: Surety Cost Basis: S. Nevada Notice Level

**Exploration Roads & Pads - Cost Summary**

	Labor	Equipment	Materials	Totals
Grading Costs	\$2,861	\$4,432	N/A	\$7,293
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarfing Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$2,861	\$4,432	N/A	\$7,293
Revegetation Cost	\$376	\$219	\$1,757	\$2,352
<b>TOTALS</b>	<b>\$3,437</b>	<b>\$4,651</b>	<b>\$1,757</b>	<b>\$9,845</b>

**Exploration Roads & Pads - User Input**

You must fill in ALL green cells and relevant blue cells in this section for each road									
Physical (1) - MANDATORY									
	Facility Description (required)	ID Code	Underlying Ground % Slope	Ungraded Slope % Slope	Cut Slope % Slope	Road + Drill Pad Length ft	Road Width ft	Number of Drill Pads	Individual Sump Volume cu yd
1	As-Built Surface Disturbance from NVN-095045		15.0	1.3	35.0	5,405	12.0	8	0
2	Planned Water Bladder Laydown Area		5.0	1.3	35.0	61	0.0	1	0
3	Planned Constructed Roads and Drill Sites		15.0	1.3	35.0	4,044	12.0	24	52

- Notes:
1. All Physical parameters must be input even if manual overrides for volume or area are used
  2. Slope replacement refers to the percentage of cut volume replaced during grading.
  3. If Slope from facility to borrow source is >20, downhill travel time may be underestimated due to limitation of uphill travel time curves and downhill speed tables from CAT Handbook (see Productivity Sheet)
  4. Sump volume will be applied to all roads on slopes <20%. On slopes >20% pad width (i.e. cut volume) should be adequate to account for sump volume.

**Exploration Roads & Pads - User Input (cont.)**

You must fill in ALL green cells and relevant blue cells in this section for each road									
Grading									
	Regrade Material Condition (select)	Cut Material Type (select)	Recontouring Equipment Fleet (select)	Additional Hrs for Walk-in <sup>(1)</sup>	Growth Media Material Type (select)	Growth Media Equipment Fleet (select)	Maximum Fleet Size (user override)	Additional Hrs for Walk-in <sup>(1)</sup>	Revegetation
1	LS - broken	LS - broken	Small Dozer	1.0					
2	LS - broken	LS - broken	Small Dozer						
3	LS - broken	LS - broken	Small Dozer						

- Notes:
1. Include one-way hours necessary to walk equipment in from drop-off point to work area
  2. Material Types are used for density correction based on Caterpillar Performance Handbook material density table

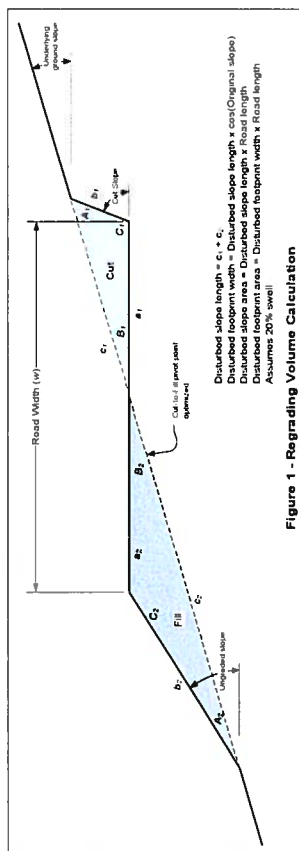
Closure Cost Estimate  
Expl. Roads & Pads

Project Name: South Infill Notice- Notice or Exploration  
Date of Submittal: October 2018  
File Name: 3843\South Infill Notice.RCE.V2.xlsm  
Model Version: Version 1.4.1  
Cost Data: User Data  
Cost Data File: SRCE\_Cost\_Data\_File\_1\_12\_Std\_2018.xlsm  
Cost Estimate Type: Surety Cost Basis: S. Nevada Notice Level

Exploration Roads & Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$2,861	\$4,432	N/A	\$7,293
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$2,861	\$4,432	N/A	\$7,293
Revegetation Cost	\$576	\$219	\$1,757	\$2,552
<b>TOTALS</b>	<b>\$3,437</b>	<b>\$4,651</b>	<b>\$1,757</b>	<b>\$9,845</b>

### Exploration Roads & Pads - Calculations

#### Regrading Volume and Footprint Volume



#### Ripping/Scarifying Calculations

Minimum 1 hr ripping/scarifying time per area  
Number of passes = Final slope length ÷ Grader width  
Travel distance = Number of passes x Road length  
Total hours = (Travel distance ÷ Grader productivity) x (Number of passes x Grader maneuver time)  
For dozer regrading assumes push distance = 3 x road width

#### Revegetation Calculations

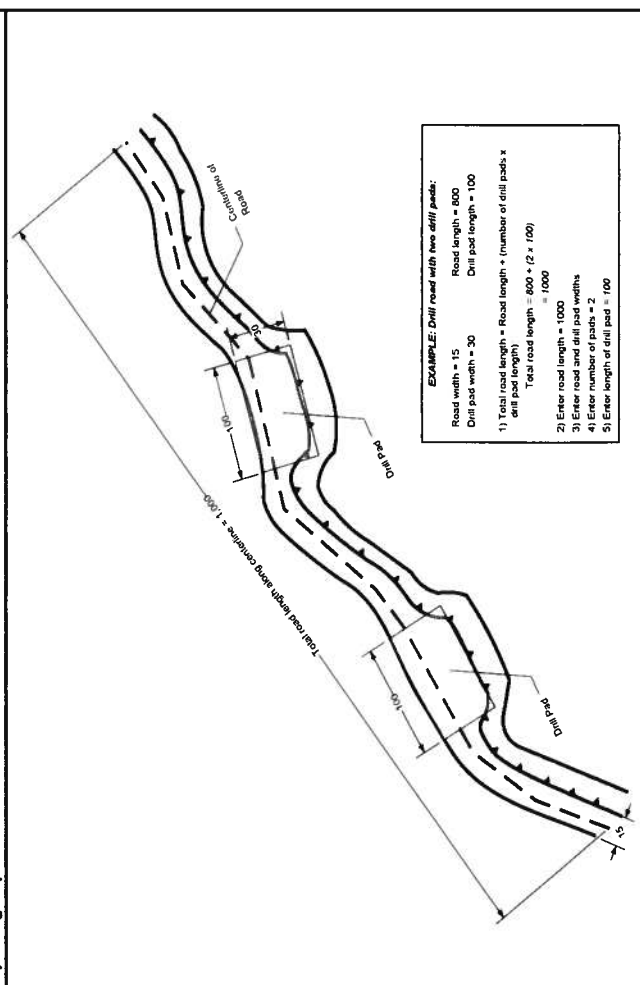
Minimum of 1 acre crew time per area

Closure Cost Estimate  
Expl. Roads & Pads

Project Name: South Infill Notice- Notice or Exploration  
Date of Submittal: October 2018  
File Name: 38431.South Infill Notice.RCE.V2.xlsm  
Model Version: Version 1.4.1  
Cost Data: User Data  
Cost Data File: SRCE\_Cost\_Data\_File\_1\_12\_Std\_2018.xlsm  
Cost Estimate Type: Surety Cost Basis: S. Nevada Notice Level

Exploration Roads & Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$2,861	\$4,432	N/A	\$7,293
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarfing Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$2,861	\$4,432	N/A	\$7,293
Revegetation Cost	\$576	\$219	\$1,757	\$2,552
<b>TOTALS</b>	<b>\$3,437</b>	<b>\$4,651</b>	<b>\$1,757</b>	<b>\$9,845</b>

Inputting Exploration Roads and Drill Pads



**Closure Cost Estimate  
Expl. Roads & Pads**

Project Name: South Infill Notice- Notice or Exploration  
Date of Submittal: October 2018  
File Name: 38431.South Infill Notice.RCE.V2.xlsm  
Model Version: Version 1.4.1  
Cost Data: User Data  
Cost Data File: SRCE\_Cost\_Data\_File\_1\_12\_Std\_2018.xlsm  
Cost Estimate Type: Surety Cost Basis: S. Nevada Notice Level

Exploration Roads & Pads - Cost Summary				
	Labor	Equipment	Materials	Totals
Grading Costs	\$2,861	\$4,432	N/A	\$7,293
Cover Placement Cost	\$0	\$0	N/A	\$0
Ripping/Scarifying Cost	\$0	\$0	N/A	\$0
Subtotal Earthworks	\$2,861	\$4,432		\$7,293
Revegetation Cost	\$376	\$219	\$1,757	\$2,352
<b>TOTALS</b>	<b>\$3,437</b>	<b>\$4,651</b>	<b>\$1,757</b>	<b>\$9,845</b>

Exploration Roads & Pads - Regrading Costs										
	Description (required)	Total Road Length ft	Total Drill Pad Length ft	Regrading Volume cy	Recontouring Fleet	Equipment Productivity cy/hr	Total Equipment Hours (1) hr	Total Labor Cost \$	Total Equipment Cost \$	Total Regrading Cost \$
1	As-Built Surface Disturbance from NVN-095045	4,917	488	2,241	D6R	68	14	\$1,027	\$1,591	\$2,618
2	Planned Water Badder Laydown Area	0	61	41	D6R	121	1	\$73	\$114	\$187
3	Planned Constructed Roads and Drill Sites	2,844	1,200	4,500	D6R	68	24	\$1,761	\$2,727	\$4,488
		7,761	1,749	6,782			39	\$2,861	\$4,432	\$7,293

(1) Includes walk-in time based on distance and travel speed (see Productivity sheet for speeds)

Exploration Roads & Pads - Growth Media Costs						
	Description (required)	Growth Media Volume cy	Growth Media Replacement Fleet	Number of Trucks/ Scrapers	Total Fleet Hours	Total Growth Media Cost \$
1	As-Built Surface Disturbance from NVN-095045				\$0	\$0
2	Planned Water Barrier Laydown Area				\$0	\$0
3	Planned Constructed Roads and Drill Sites				\$0	\$0
					\$0	\$0

Exploration Roads & Pads - Scarifying/Revegetation Costs									
	Description (required)	Surface Area acres	Ripping/Scarifying Fleet	Ripping Hours hrs	Ripping Labor Costs \$	Total Ripping Labor Costs \$	Revegetation Equipment Cost \$	Revegetation Material Cost \$	Total Revegetation Cost \$
1	As-Built Surface Disturbance from NVN-095045	2.01				\$201	\$76	\$720	\$1,007
2	Planned Water Barrier Laydown Area	0.08				\$70	\$38	\$830	\$938
3	Planned Constructed Roads and Drill Sites	2.75				\$275	\$103	\$958	\$1,376
		4.84			\$0	\$576	\$219	\$1,737	\$2,532

ce Level

ent	Materials	Totals
\$0	\$0	\$0
\$264	\$6	\$1,036
\$264	\$6	\$1,036

er	Casing Diam in	Average Depth <sup>(1)</sup> ft bgs	Depth to First Water ft bgs	Original Static Water Level ft bgs	Top of Slotted Casing <sup>(2)</sup> ft bgs	Blank Casing Below Top of Screen <sup>(2)</sup> ft	Type of Pump (if any) (select)	Depth to Pump ft bgs	Hole Plug Method (select)	Casing Volume per ft cf	Perforation Length <sup>(3,4)</sup> ft	Grout Volume per Hole <sup>(4,5)</sup> cy	Cement Volume per Hole <sup>(6)</sup> cy	Inert Media Volume per Hole <sup>(7)</sup> cy	Pump Removal Equip Cost <sup>(8)</sup> \$	Pump Removal Labor Cost <sup>(8)</sup> \$	Perf Equip Cost <sup>(8)</sup> \$	Grout + Cement Labor Cost <sup>(8)</sup> \$	Grout + Cement Equip Cost <sup>(8)</sup> \$
															\$0	\$0	\$0	\$0	\$0

grouted and perforated from bottom to 50 feet (15.24m) above the top of the screen, or first water encountered or original static water level, depending on vertical hydraulic gradient and well construction parameters. Inert media (cuttings or alluvium) used from top of grout to top seal.

3) 3 hours per hole for move and setup. If no perforation required, use standard drill rig.

er	Casing Diam in	Average Depth ft bgs	Top of Screen <sup>(1)</sup> ft bgs	Hole Plug Method (select)	Casing Volume per ft cf	Grout Volume/ Well <sup>(2,3)</sup> cy	Cement Volume per Hole <sup>(4)</sup> cy	Inert Backfill Volume per Hole <sup>(5)</sup> cy	Total Grouting Hours/ Hole hr	Total Inert Media Hours/ Hole hr	Grout + Cement Labor Cost <sup>(6)</sup> \$	Grout + Cement Material Cost <sup>(6)</sup> \$	Inert Material Labor Cost <sup>(7)</sup> \$	Inert Material Equip Cost <sup>(7)</sup> \$	Total Cost \$
	4.0	250	150	Cement PI	0.090		0.08	0.27		3.0	\$0	\$0	\$766	\$264	\$1,036

ve the top of the screen (see note 1).

aquifers) or the depth of first water encountered (in confined aquifers).

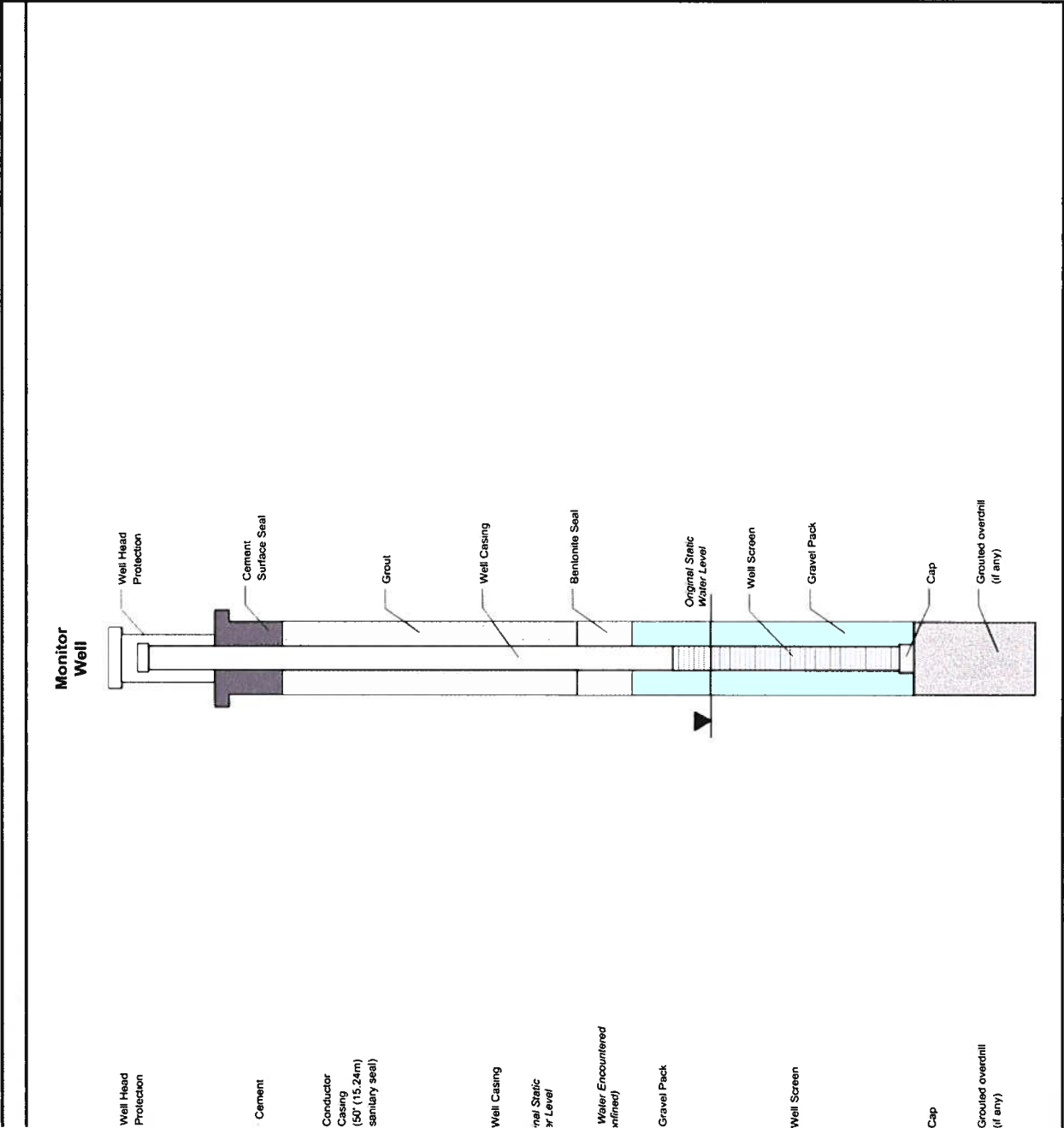
onitor wells are constructed with a seal in the annular space.

it up to cement surface plug.

3 hours per hole for move and setup (see Productivity Sheet).

ce Level

Item	Materials	Totals
	\$0	\$0
	\$264	\$6
	\$264	\$1,036



### Closure Cost Estimate Monitoring

Project Name: South Infill Notice- Notice or Exploration  
 Date of Submittal: October 2018  
 File Name: 38431.South Infill Notice.RCE.V2.xlsm  
 Model Version: Version 1.4.1  
 Cost Data: User Data  
 Cost Data File: SRCE\_Cost\_Data\_File\_1\_12\_Std\_2018.xlsm  
 Cost Estimate Type: Surety Cost Basis: S. Nevada Notice Level

Reclamation Monitoring & Maintenance - Cost Summary				
	Labor	Equipment	Lab & Materials	Totals
Revegetation Maintenance	\$48	\$18	\$176	\$242
Erosion Maintenance	\$0	\$0	N/A	\$0
Reclamation Monitoring	\$4,100	\$485	N/A	\$4,585
Subtotal Reclamation Monitoring	\$4,148	\$503	\$176	\$4,827
Water Quality Monitoring	\$0	\$0	\$0	\$0
TOTAL MONITORING	\$4,148	\$503	\$176	\$4,827

Reclamation Maintenance								
Description	Total Revegetation Surface Area (1,2) acres	% Area Requiring Reseeding	Seed Mix (select)	Area Requiring Reseeding acres	Seed \$/acres	Labor \$/acres	Equipment \$/acres	Totals \$
<b>Revegetation Maintenance</b>	5	10%	Mix 3	0.5	\$363.00	\$100.00	\$38.00	
Labor								\$48
Equipment								\$18
Materials								\$176
Cost/Acre								\$501
							Subtotal	\$242

Notes: 1) Surface area is NOT the same as footprint disturbance area typically used for permitting purposes.

	Total Volume Growth Media cy	% Volume Requiring Maintenance	Average Growth Media Placement Cost \$/CY	Volume Requiring Replacement cy		Labor (assume: 25%) \$/acres	Equipment (assume: 75%) \$/acres	Total \$
<b>Erosion Maintenance</b>	0		\$0.00	0		\$0.00	\$0.00	\$0

Notes:

Reclamation Monitoring					
Description	Hrs/Day	Days/Year	Number of Years	Rate \$/hr	
<b>Field Work</b>					
Field Geologist/Engineer				\$149.49	\$0
Range Scientist	6	1	3	\$136.68	\$2,460
<b>Reporting</b>					
Field Geologist/Engineer				\$149.49	\$0
Range Scientist	4	1	3	\$136.68	\$1,640
					Subtotal \$4,100
<b>Travel</b>					
	Hrs/Trip hr	Trips/Year	Years	Truck Cost \$/hr	
Travel	6	1	3	\$26.97	\$485
					Subtotal \$485
Total Reclamation Monitoring					\$4,585

Notes:

**Closure Cost Estimate  
Labor Rates**

Project Name: South Infill Notice- Notice or Exploration  
 Date of Submittal: October 2018  
 File Name: 3843I.South Infill Notice.RCE.V2.xlsm  
 Model Version: Version 1.4.1  
 Cost Data: User Data  
 Cost Data File: SRCE\_Cost\_Data\_File\_1\_12\_Std\_2018.xlsm  
 Cost Estimate Type: Surety Cost Basis: S. Nevada Notice Level

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

ZONE ADJUSTMENTS			
Cost Basis/Project Region	S. Nevada Notice Level	Clark, Esmeralda, Lincoln and Nye Counties	
Power Equipment Operators	>60 miles	\$3.50	
Truck Drivers	>70 miles	\$3.50	
Laborers	>50 miles	\$3.25	
INDIRECT COSTS			
Unemployment (%)	3.00%		
Retirement/SS/Medicare (%)	7.65%		
Workman's Compensation (%)	0.075		
Other Indirects			
State Payroll Tax (13),(15),(17)			
Total Other Indirects	0.00%		

HOURLY LABOR RATE TABLE										
EQUIPMENT TYPE (1) OR JOB DESCRIPTION	Labor Group	Base Rate (\$/hr)	Zone Adjustment (\$/hr)	Hourly Wage (\$/hr)	Fringe (\$/hr)	Retirement/ Medicare (\$/hr)	Unemployment Insurance (\$/hr)	Workman's Compensation (\$/hr)	Other Indirect Costs (\$/hr)	Total (\$/hr)
Equipment Operators (\$/hr) (2)										
Bulldozers										
D6R	Group 6	\$58.62	\$3.50	\$62.12	\$0.00	\$1.86	\$4.75	\$4.66	\$0.00	\$73.39
D6R w/ Winch					\$0.00					
D7R	Group 6	\$58.62	\$3.50	\$62.12	\$0.00	\$1.86	\$4.75	\$4.66	\$0.00	\$73.39
D8R	Group 6	\$58.62	\$3.50	\$62.12	\$0.00	\$1.86	\$4.75	\$4.66	\$0.00	\$73.39
D9R	Group 6	\$58.62	\$3.50	\$62.12	\$0.00	\$1.86	\$4.75	\$4.66	\$0.00	\$73.39
D10R	Group 6	\$58.62	\$3.50	\$62.12	\$0.00	\$1.86	\$4.75	\$4.66	\$0.00	\$73.39
D11R	Group 6	\$58.62	\$3.50	\$62.12	\$0.00	\$1.86	\$4.75	\$4.66	\$0.00	\$73.39
Wheeled Dozers										
824G					\$0.00					
834G					\$0.00					
844					\$0.00					
854G					\$0.00					
Motor Graders										
120H	Group 10	\$58.85	\$3.50	\$62.35	\$0.00	\$1.87	\$4.77	\$4.68	\$0.00	\$73.67
140H	Group 10	\$58.85	\$3.50	\$62.35	\$0.00	\$1.87	\$4.77	\$4.68	\$0.00	\$73.67
160H	Group 10	\$58.85	\$3.50	\$62.35	\$0.00	\$1.87	\$4.77	\$4.68	\$0.00	\$73.67
24M					\$0.00					
Track Excavators										
312C	Group 12	\$59.02	\$3.50	\$62.52	\$0.00	\$1.88	\$4.78	\$4.69	\$0.00	\$73.87
320C	Group 12	\$59.02	\$3.50	\$62.52	\$0.00	\$1.88	\$4.78	\$4.69	\$0.00	\$73.87
325C	Group 12	\$59.02	\$3.50	\$62.52	\$0.00	\$1.88	\$4.78	\$4.69	\$0.00	\$73.87
330C	Group 12	\$59.02	\$3.50	\$62.52	\$0.00	\$1.88	\$4.78	\$4.69	\$0.00	\$73.87
345B	Group 12	\$59.02	\$3.50	\$62.52	\$0.00	\$1.88	\$4.78	\$4.69	\$0.00	\$73.87
365BL					\$0.00					
385BL	Group 12	\$59.02	\$3.50	\$62.52	\$0.00	\$1.88	\$4.78	\$4.69	\$0.00	\$73.87
Scrapers										
631G	Group 15	\$59.23	\$3.50	\$62.73	\$0.00	\$1.88	\$4.80	\$4.70	\$0.00	\$74.12
637G	Group 15	\$59.23	\$3.50	\$62.73	\$0.00	\$1.88	\$4.80	\$4.70	\$0.00	\$74.12
Wheeled Loaders										
924G	Group 8	\$58.73	\$3.50	\$62.23	\$0.00	\$1.87	\$4.76	\$4.67	\$0.00	\$73.52
928G	Group 8	\$58.73	\$3.50	\$62.23	\$0.00	\$1.87	\$4.76	\$4.67	\$0.00	\$73.52
950G	Group 8	\$58.73	\$3.50	\$62.23	\$0.00	\$1.87	\$4.76	\$4.67	\$0.00	\$73.52
966G	Group 8	\$58.73	\$3.50	\$62.23	\$0.00	\$1.87	\$4.76	\$4.67	\$0.00	\$73.52
972G	Group 8	\$58.73	\$3.50	\$62.23	\$0.00	\$1.87	\$4.76	\$4.67	\$0.00	\$73.52
980G	Group 8	\$58.73	\$3.50	\$62.23	\$0.00	\$1.87	\$4.76	\$4.67	\$0.00	\$73.52
988G	Group 10	\$58.85	\$3.50	\$62.35	\$0.00	\$1.87	\$4.77	\$4.68	\$0.00	\$73.67
990					\$0.00					
992G	Group 10	\$58.85	\$3.50	\$62.35	\$0.00	\$1.87	\$4.77	\$4.68	\$0.00	\$73.67
994D					\$0.00					
L2350					\$0.00					
Shovels										
PC2000					\$0.00					
PC3000					\$0.00					
PC4000					\$0.00					
PC5500					\$0.00					
PC8000					\$0.00					
Hydraulic Hammers										
H-120 (fits 325)										
H-160 (fits 345)										
H-180 (fits 365/385)										
Demolition Shears										
S340 (fits 322/325/330)										
S385 (fits 330/345)										
S390 (fits 365/385)										
Demolition Grapples										
G315 (fits 322/325)										
G320 (fits 325/330)										
G330 (fits 345/365)										

**Closure Cost Estimate  
Labor Rates**

Project Name: South Infill Notice- Notice or Exploration  
 Date of Submittal: October 2018  
 File Name: 3843L.South Infill Notice.RCE.V2.xlsm  
 Model Version: Version 1.4.1  
 Cost Data: User Data  
 Cost Data File: SRCE\_Cost\_Data\_File\_1\_12\_Std\_2018.xlsm  
 Cost Estimate Type: Surety Cost Basis: S. Nevada Notice Level

Color Code Key	
User Input - Direct Input	Direct Input
User Input - Pull Down List	Pull Down Selection
Program Constant (can override)	Alternate Input
Program Calculated Value	Locked Cell - Formula or Reference

ZONE ADJUSTMENTS			
Cost Basis/Project Region	S. Nevada Notice Level	Clark, Esmeralda, Lincoln and Nye Counties	
Power Equipment Operators	>60 miles	\$3.50	
Truck Drivers	>70 miles	\$3.50	
Laborers	>50 miles	\$3.25	
INDIRECT COSTS			
Unemployment (%)	3.00%		
Retirement/SS/Medicare (%)	7.65%		
Workman's Compensation (%)	0.075		
Other Indirects			
State Payroll Tax (13),(15),(17):			
Total Other Indirects	0.00%		

HOURLY LABOR RATE TABLE										
Other Equipment										
420D 4WD Backhoe	Group 4	\$58.40	\$3.50	\$61.90	\$0.00	\$1.86	\$4.74	\$4.64	\$0.00	\$73.13
428D 4WD Backhoe	Group 4	\$58.40	\$3.50	\$61.90	\$0.00	\$1.86	\$4.74	\$4.64	\$0.00	\$73.13
CS533E Vibratory Roller	Group 4	\$58.40	\$3.50	\$61.90	\$0.00	\$1.86	\$4.74	\$4.64	\$0.00	\$73.13
CS633E Vibratory Roller					\$0.00					
CP533E Sheepsfoot Compactor					\$0.00					
CP633E Sheepsfoot Compactor					\$0.00					
Light Truck - 1.5 Ton					\$0.00					
Supervisor's Truck					\$0.00					
Flatbed Truck					\$0.00					
Air Compressor + tools	Group 1	\$55.67	\$3.50	\$59.17	\$0.00	\$1.78	\$4.53	\$4.44	\$0.00	\$69.91
Welding Equipment	Group 6	\$58.62	\$3.50	\$62.12	\$0.00	\$1.86	\$4.75	\$4.66	\$0.00	\$73.39
Heavy Duty Drill Rig	Group 2	\$56.62	\$3.50	\$60.12	\$0.00	\$1.80	\$4.60	\$4.51	\$0.00	\$71.03
Pump (plugging) Drill Rig	Group 2	\$56.62	\$3.50	\$60.12	\$0.00	\$1.80	\$4.60	\$4.51	\$0.00	\$71.03
Concrete Pump					\$0.00					
Gas Engine Vibrator	Group 6	\$58.62	\$3.50	\$62.12	\$0.00	\$1.86	\$4.75	\$4.66	\$0.00	\$73.39
Generator 5KW					\$0.00					
HDEP Welder (pipe or liner)					\$0.00					
5 Ton Crane	Group 8	\$58.73	\$3.50	\$62.23	\$0.00	\$1.87	\$4.76	\$4.67	\$0.00	\$73.52
20 Ton Crane	Group 8	\$58.73	\$3.50	\$62.23	\$0.00	\$1.87	\$4.76	\$4.67	\$0.00	\$73.52
50 Ton Crane	Group 8	\$58.73	\$3.50	\$62.23	\$0.00	\$1.87	\$4.76	\$4.67	\$0.00	\$73.52
120 Ton Crane					\$0.00					
NOTES:										
(1) Equipment Type	Caterpillar model or equivalent, LeTourneau									
(2) Equipment Operator Source	D-B NV180034 01/05/2018									
(3) Zone Basis	From Las Vegas City Hall									
Truck Drivers (\$/hr) (4)										
725	Group 4	\$46.62	\$3.50	\$50.12	\$0.00	\$1.50	\$3.83	\$3.76	\$0.00	\$59.22
730	Group 4	\$46.62	\$3.50	\$50.12	\$0.00	\$1.50	\$3.83	\$3.76	\$0.00	\$59.22
735	Group 4	\$46.62	\$3.50	\$50.12	\$0.00	\$1.50	\$3.83	\$3.76	\$0.00	\$59.22
740	Group 4	\$46.62	\$3.50	\$50.12	\$0.00	\$1.50	\$3.83	\$3.76	\$0.00	\$59.22
769D	Group 4	\$46.62	\$3.50	\$50.12	\$0.00	\$1.50	\$3.83	\$3.76	\$0.00	\$59.22
773E					\$0.00					
777D	Group 4	\$46.62	\$3.50	\$50.12	\$0.00	\$1.50	\$3.83	\$3.76	\$0.00	\$59.22
785C					\$0.00					
793C					\$0.00					
797B					\$0.00					
613E (5,000 gal) Water Wagon	Group 3	\$46.44	\$3.50	\$49.94	\$0.00	\$1.50	\$3.82	\$3.75	\$0.00	\$59.00
621E (8,000 gal) Water Wagon	Group 4	\$46.62	\$3.50	\$50.12	\$0.00	\$1.50	\$3.83	\$3.76	\$0.00	\$59.22
777D Water Truck					\$0.00					
785C Water Truck					\$0.00					
Dump Truck (10-12 yd3)	Group 2	\$46.23	\$3.50	\$49.73	\$0.00	\$1.49	\$3.80	\$3.73	\$0.00	\$58.76
NOTES:										
(4) Truck Driver Source	D-B NV18003401/05/2018									
(5) Zone Basis	From Las Vegas City Hall									



2018 MOB/DEMOB using R.S. MEANS and SRCE equipment and DAVIS-BACON wages										
blue font is for project specific user input				Miles from Washoe County Courthouse to project, one way				293		
				Miles from equipment rental yard to project, one way (9)				276		
PMU - South Infill Notice - October 2018, Mob from Las Vegas, NV							Hours travel time @ 55 MPH		5.02	
Equipment	Mobilization \$/hour (1)	\$ Flat Rate load & unload (2)	\$/hour Deadhead (empty return cost) (3)	Disassembly and assembly (4)	Permit cost \$ (5)	Pilot car costs	# of units	One Way Mob Cost	Total Mob and Demob Cost	
<b>Bulldozers</b>										
D6R	\$ 99	\$ 99	\$ 99	\$ -	\$ -	\$ -	1	\$ 1,088	\$	2,175
D7R	\$ 128	\$ 128	\$ 128	\$ -	\$ 25	\$ 455		\$ -	\$	-
D8R	\$ 150	\$ 150	\$ 150	\$ -	\$ 25	\$ 633		\$ -	\$	-
D9R	\$ 150	\$ 150	\$ 150	\$ -	\$ 25	\$ 633		\$ -	\$	-
D10R	\$ 150	\$ 150	\$ 150	\$ 65,940	\$ 25	\$ 950		\$ -	\$	-
D11R (two transports) (7)	\$ 150	\$ 150	\$ 150	\$ 139,848	\$ 25	\$ 633		\$ -	\$	-
<b>Motor Graders</b>										
14G/H	\$ 99	\$ 99	\$ 99	\$ -	\$ -	\$ -		\$ -	\$	-
16G/H	\$ 128	\$ 128	\$ 128	\$ -	\$ 25	\$ 317		\$ -	\$	-
<b>Track Excavators</b>										
320C	\$ 128	\$ 128	\$ 128	\$ -	\$ -	\$ -		\$ -	\$	-
325C	\$ 128	\$ 128	\$ 128	\$ -	\$ -	\$ -		\$ -	\$	-
345B	\$ 150	\$ 150	\$ 150	\$ -	\$ 25	\$ 633		\$ -	\$	-
385BL	\$ 150	\$ 150	\$ 150	\$ 46,260	\$ 25	\$ 633		\$ -	\$	-
<b>Scrapers</b>										
631G	\$ 150	\$ 150	\$ 150	\$ -	\$ 25	\$ 633		\$ -	\$	-
637G PP	\$ 150	\$ 150	\$ 150	\$ -	\$ 25	\$ 633		\$ -	\$	-
<b>Wheeled Loaders</b>										
928G	\$ 99	\$ 99	\$ 99	\$ -	\$ -	\$ -		\$ -	\$	-
966G	\$ 99	\$ 99	\$ 99	\$ -	\$ -	\$ -		\$ -	\$	-
972G	\$ 128	\$ 128	\$ 128	\$ -	\$ -	\$ -		\$ -	\$	-
988G	\$ 128	\$ 128	\$ 128	\$ -	\$ 25	\$ 317		\$ -	\$	-
992G (two transports) (7)	\$ 150	\$ 150	\$ 150	\$ 76,440	\$ 25	\$ 633		\$ -	\$	-
<b>Hydraulic Hammers</b>										
H-120 (fits 325) no charge, mobilize with mac	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$	-
H-160 (fits 345) no charge, mobilize with mac	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$	-
H-180 (fits 365/385) no charge, mobilize with	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$	-
<b>Other Equipment</b>										
420D 4WD Backhoe	\$ 99	\$ 99	\$ 99	\$ -	\$ -	\$ -		\$ -	\$	-
CS563E Vibratory Roller	\$ 99	\$ 99	\$ 99	\$ -	\$ -	\$ -		\$ -	\$	-
Light Truck - 1.5 Ton	\$ 63	\$ 63	\$ -	\$ -	\$ -	\$ -		\$ -	\$	-
Supervisor's Truck	\$ 56	\$ 56	\$ -	\$ -	\$ -	\$ -		\$ -	\$	-
Air Compressor + tools	\$ 78	\$ 78	\$ 78	\$ -	\$ -	\$ -		\$ -	\$	-
Welding Equipment	\$ 78	\$ 78	\$ 78	\$ -	\$ -	\$ -		\$ -	\$	-
Heavy Duty Drill Rig	\$ 392	\$ 392	\$ -	\$ -	\$ -	\$ -		\$ -	\$	-
Pump (plugging) Drill Rig	\$ 392	\$ 392	\$ -	\$ -	\$ -	\$ -	1	\$ 2,358	\$	4,717
Concrete Pump	\$ 78	\$ 78	\$ 78	\$ -	\$ -	\$ -		\$ -	\$	-
Gas Engine Vibrator	\$ 78	\$ 78	\$ 78	\$ -	\$ -	\$ -		\$ -	\$	-
Generator 5KW	\$ 78	\$ 78	\$ 78	\$ -	\$ -	\$ -		\$ -	\$	-
HDEP Welder (pipe or liner)	\$ 78	\$ 78	\$ 78	\$ -	\$ -	\$ -		\$ -	\$	-
5 Ton Crane Truck	\$ 94	\$ 94	\$ -	\$ -	\$ -	\$ -		\$ -	\$	-
25 Ton Crane	\$ 135	\$ 135	\$ -	\$ -	\$ -	\$ -		\$ -	\$	-
<b>Trucks</b>										
725	\$ 99	\$ 99	\$ 99	\$ -	\$ -	\$ -		\$ -	\$	-
740	\$ 128	\$ 128	\$ 128	\$ -	\$ 25	\$ 317		\$ -	\$	-
769D	\$ 128	\$ 128	\$ 128	\$ -	\$ 25	\$ 633		\$ -	\$	-
777D (two transports) (8)	\$ 150	\$ 150	\$ 150	\$ 73,452	\$ 25	\$ 950		\$ -	\$	-
613E (5,000 gal) Water Wagon	\$ 150	\$ 150	\$ 150	\$ -	\$ -	\$ -		\$ -	\$	-
621E (8,000 gal) Water Wagon	\$ 150	\$ 150	\$ 150	\$ -	\$ 25	\$ 633		\$ -	\$	-
Dump Truck (10-12 yd³)	\$ 112	\$ 112	\$ 112	\$ -	\$ -	\$ -		\$ -	\$	-
<b>Miscellaneous</b>										
Equipment for dry hole abandonment (420D 4WD)	\$ 99	\$ 99	\$ 99	\$ -	\$ -	\$ -		\$ -	\$	-
Pilot car (Light Truck)	\$ 56	\$ 56	\$ 56	\$ -	\$ -	\$ -		\$ -	\$	-
Truck Tractor + Lowbed Trailer 75 ton	\$ 150	\$ 150	\$ 150	\$ -	\$ -	\$ -		\$ -	\$	-
Truck Tractor + Flatbed Trailer 40 ton	\$ 128	\$ 128	\$ 128	\$ -	\$ -	\$ -		\$ -	\$	-
Light Truck + Flatbed Trailer 25 ton	\$ 78	\$ 78	\$ 78	\$ -	\$ -	\$ -		\$ -	\$	-
							2	\$	6,892	
<b>Footnotes and explanations of assumptions</b>										
(1) The sum of the cost of equipment from either the SRCE or RSM equipment tab plus Davis-Bacon labor tab										
(2) Assumes minimum of 30 minutes load and secure and 30 minutes unsecure and unload machine										
(3) No "Deadhead" (empty) charge for Mob up to 50 miles. More than 50 miles the cost of deadhead same rate as loaded miles.										
(4) Only large equipment requires disassembly for transport. Includes cost of mechanic + mechanic's truck + crane operator + crane										
(5) Nevada Dept. of Transportation overdimensional permits are \$25 per trip or \$60 per year.										
(6) Sum of mobilization plus all ancillary costs for one way loaded and return empty										
(7) Two transports are required but the second transport does not need pilot cars or permits or a heavy duty trailer.										
(8) Two transports required with both requiring full complement of pilot cars and permits.										
(9) For large mining operations, mobilization may be required from more than one location. For example, the Elko yard may not have four 631 scrapers. Additional equipment may need to mobilize from Reno, Las Vegas, or Salt Lake City. Input the further distance here										
(10) Pilot Car costs based on SRCE light truck costs and Davis-Bacon wages										
(11) SRCE costs based on July 2018 vendor quotes.										
(12) RS Means costs based on R.S. Means Heavy Construction Cost Data, 2018 Q2										
(13) Davis Bacon wages based on 2018 determination.										